

(19)



JAPANESE PATENT OFFICE

**PATENT ABSTRACTS OF JAPAN**

(11) Publication number: **04126079 A**

(43) Date of publication of application: **27.04.1992**

(51) Int. Cl. **C12N 9/48**  
/(C12N9/48, C12R1:645)

(21) Application number: **02244780**  
(22) Date of filing: **14.09.1990**

(71) Applicant: **DAIWA KASEI KK**  
(72) Inventor: **SAKAGUCHI MINORU**  
**SATO TAKUJI**  
**TOYODA NORIKO**  
**YAMAMOTO EIKO**  
**MATSUMURA EIKO**  
**MURAO SAWAO**

**(54) CARBOXYPEPTIDASE B-LIKE ENZYME  
ORIGINATED FROM MICROORGANISM**

(57) Abstract:

**PURPOSE:** To obtain a carboxypeptidase B-like enzyme suitable for the production on industrial scale by culturing a microbial strain belonging to genus Chaetomium.

**CONSTITUTION:** A microbial strain belonging to genus Chaetomium and capable of producing carboxypeptidase, e.g. Chaetomium sp. F-33 (FERM P-

11711) is cultured and the objective carboxypeptidase B-like enzyme accumulated in the bacterial cell is collected therefrom. The enzyme hydrolyzes and isolates the terminal arginine or lysine of a peptide having arginine or lysine as carboxy terminal. It has an optimum pH of about 8.5 (in tris-HCl buffer solution), an optimum temperature of 55°C, a stable pH range of 7-10 (25°C, 9hr), a thermal stability to retain 100% activity at 4°C and pH 7.5 after 1 year and 90% activity at 55°C after 5hr and a molecular weight of about 450,000.

**COPYRIGHT:** (C)1992,JPO&Japio

**BEST AVAILABLE COPY**